

What is claimed is:

1. A toner for developing electrostatic latent image comprising a colored resin particle containing a binder resin,
5 a colorant, a charge control agent and a parting agent, having the following properties;

(1) said colored resin particle has a volume average particle diameter (D_v) in the range of 4 to 9 μm ;

10 (2) said colored resin particle has an average circularity in the range of 0.93 to 0.995;

(3) said toner has a shear viscosity (η_1) at 130°C and a shear rate of 10/s in the range of 800 to 3,500Pa·s; and

(4) said toner has a shear viscosity (η_2) at 130°C and a shear rate of 500/s in the range of 100 to 1,000Pa·s.

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2. The toner for developing electrostatic latent image according to claim 1,

wherein a ratio of η_1 to η_2 (η_1/η_2) is 3 to 10.

20 3. The toner for developing electrostatic latent image according to claim 1,

wherein an amount of insoluble component in tetrahydrofuran is 10 to 70% by weight.

25 4. The toner for developing electrostatic latent image according to claim 1,

wherein said charge control agent is a charge control

resin.

5. The toner for developing electrostatic latent image according to claim 4,

5 wherein said charge control resin has a glass transition temperature in the range of 40 to 80°C.

6. The toner for developing electrostatic latent image according to claim 1,

10 wherein said parting agent is a multifunctional ester compound having a hydroxyl value of 5mgKOH/g or less.

7. The toner for developing electrostatic latent image according to claim 1,

15 wherein said parting agent is a multifunctional ester compound having an acid value of 0.5mgKOH/g or less.

8. The toner for developing electrostatic latent image according to claim 1,

20 wherein said parting agent is a multifunctional ester compound having a molecular weight of 1000 or more.

9. The toner for developing electrostatic latent image according to claim 1,

25 wherein said parting agent is a multifunctional ester compound soluble in 100 parts by weight of styrene at 25°C in an amount of 5 parts by weight or more.

10. The toner for developing electrostatic latent image according to claim 1,

wherein said colored resin particle has an average
5 circularity in the range of 0.95 to 0.995.

11. The toner for developing electrostatic latent image according to claim 1,

wherein said colored resin particle has a volume average
10 particle diameter (D_v) in the range of 4 to 7 μm .

12. The toner for developing electrostatic latent image according to claim 1,

wherein said colored resin particle has a ratio (D_v/D_p)
15 of a volume average particle diameter (D_v) to a number average particle diameter (D_p) in the range of 1.0 to 1.3.

13. The toner for developing electrostatic latent image according to claim 1,

20 wherein said binder resin is a polymer produced by a polymerization of a polymerizable monomer containing monovinylmonomer and crosslinkable monomer, in which said crosslinkable monomer is selected from the group consisting of polyisoprene based diacrylate, 1,9-nonadiol diacrylate
25 and propylene oxide adduct diacrylate of bisphenol A.

14. The toner for developing electrostatic latent image

according to claim 13,

wherein an addition amount of said crosslinkable monomer is 10 parts by weight or less to 100 parts by weight of said monovinyl monomer.

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15. The toner for developing electrostatic latent image according to claim 13,

wherein a molecular weight modifier is employed at said polymerization, in which an addition amount of said molecular weight modifier is 0.1 to 5 parts by weight per 100 parts by weight of said colored resin particle.

16. The toner for developing electrostatic latent image according to claim 1 further comprising an external additive,

15 wherein a content of the external additive is 0.1 to 6 parts per 100 parts by weight of the colored resin particle.

17. The toner for developing electrostatic latent image according to claim 16,

20 wherein said external additive is a hydrophobicizing-treated particle.

18. The toner for developing electrostatic latent image according to claim 16,

25 wherein said external additive is a hydrophobicizing-treated silica particle.

19. The toner for developing electrostatic latent image according to claim 1,

wherein said colored resin particle is produced by a polymerization reaction.